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1 [Improving the reliability of commodity operating systems](#)
[Michael M. Swift](#), [Brian N. Bershad](#), [Henry M. Levy](#)

 February 2005 **Transactions on Computer Systems (TOCS)**, Volume 23 I:

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Despite decades of research in extensible operating system technology, of system failures. In Windows XP, for example, drivers account for 85%

Keywords: I/O, Recovery, device drivers, protection, virtual memory

2 [Podcasting in academia: a new knowledge management paradigm v](#)
[Peter Hacham](#), [Xuesong Zhang](#)

 April 2006 **SIGMIS CPR '06**: Proceedings of the 2006 ACM SIGMIS CF years of computer personnel research: achievements, chall

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Podcasting represents a new and exciting learning paradigm within an a manuscripts, and course lectures can be recorded as audio and video fil

Keywords: information foraging, knowledge management, podcast, so

3 [interactions: Volume 16 Issue 4](#)

July 2009 interactions

Publisher: ACM

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4 [Circuit emulation services over ethernet-part 2: prototype and experi](#)
[James Aweya](#), [Michel Ouellette](#), [Delfin Y. Montuno](#), [Jeganathan Markandu](#), January 2004 **International Journal of Network Management**, Volume

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This paper describes a prototype implementation and experimental results of a data stream over Ethernet. As explained in Part 1 of this paper, packet-

5 [A formal model for reasoning about adaptive QoS-enabled middleware](#)



Nalini Venkatasubramanian, Carolyn Talcott, Gul A. Agha


January 2004

Transactions on Software Engineering and Methodology

Publisher: ACM



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Systems that provide distributed multimedia services are subject to change. We describe how to effectively manage this change. Middleware services for resource management

Keywords: Middleware services, actors, meta-object models, multimedia services

6 [Parallelizing security checks on commodity hardware](#)



Edmund B. Nightingale, Daniel Peek, Peter M. Chen, Jason Flinn




March 2008

ASPLOS XIII: Proceedings of the 13th international conference on architecture for operating systems

Publisher: ACM



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Speck (Speculative Parallel Check) is a system that accelerates powerful parallel operations on multiple cores. Speck provides an infrastructure that allows applications to

Keywords: operating systems, parallel, performance, security, speculative execution

Also published in:

March 2008 **SIGPLAN Notices**

Volume 43 Issue 3

March 2008 **SIGARCH Computer Architecture News**

Volume 36 Issue 1

March 2008 **SIGOPS Operating Systems Review**

Volume 42 Issue 2

7 [System synthesis of synchronous multimedia applications](#)



Gang Qu, Miodrag Potkonjak


February 2003

Transactions on Embedded Computing Systems (TECS)

Publisher: ACM



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Full text available:  [Pdf](#) (286.29 KB)


Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 78, Download

Modern system design is being increasingly driven by applications such as multimedia processing which have intrinsic quality of service (QoS) requirements, such as throughput and latency.

Keywords: high-level embedded systems synthesis, on-chip memory n

8 [ExecRecorder: VM-based full-system replay for attack analysis and :](#)

 Daniela A. S. de Oliveira, Jedidiah R. Crandall, Gary Wassermann, S. Felix.
October 2006 **ASID '06**: Proceedings of the 1st workshop on Architectura

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Log-based recovery and replay systems are important for system reliab
attacks. These systems must incur low space and performance overhea

Keywords: invasive software, malware, recovery, replay, virtual machi

9 [A smooth playback technique for progressively encoded multimedia](#)

 Azzedine Boukerche, Jing Feng, Richard W. N. Pazzi
October 2007 **WMuNeP '07**: Proceedings of the 3rd ACM workshop on Wi

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Full text available:  Pdf (177.34 KB)

Additional Information: [full citatio](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 28, Downloa


Recent advances in wireless communication and multimedia processing
Internet via wireless connections. However, due to the best-effort chara

Keywords: multimedia synchronization, progressive encoding, wireless

10 [ID CAM: A Smart Camera for Scene Capturing and ID Recognition](#)

Nobuyuki Matsushita, Daisuke Hihara, Teruyuki Ushiro, Shinichi Yoshimura
October 2003 **ISMAR '03**: Proceedings of the 2nd IEEE/ACM Internationa

Publisher: IEEE Computer Society


Full text available:  Pdf (6.18 MB)

Additional Information: [full citatio](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 43, Downloa

An ID recognition system is described that uses opticalbeacons and a hi
ordinary camera and recognizes theID of a beacon emitted over a long (

11 [Enhanced mirrored servers for network games](#)

 Steven Daniel Webb, Sieteng Soh, William Lau
September 2007 **NetGames '07**: Proceedings of the 6th ACM SIGCOMM wo

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Full text available:  Pdf (385.88 KB)

Additional Information: [full citatio](#)

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The Mirrored Server (MS) architecture uses multiple mirrored servers ac
the Client/Server (C/S) architecture. Each mirror receives and multicast


Keywords: MMOG, architecture, cheating, client/server, mirrored serve

- 12** [Understanding the effect of life-like interface agents through users' e](#)
 [Helmut Prendinger, Chunling Ma, Jin Yingzi, Arturo Nakasone, Mitsuru Ishiz](#)
 October 2005 **ICMI '05: Proceedings of the 7th international conference c**
Publisher: ACM
 Full text available:  [Pdf](#) (971.77 KB) Additional Information: [full citati](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 52, Downloa

We motivate an approach to evaluating the utility of life-like interface a
 questionnaires. An eye tracker is employed to obtain quantitative eviden



Keywords: animated interface agents, eye tracking, user study, web-b

- 13** [The value of handhelds in smart environments](#)
[Frank Siegemund, Christian Floerkemeier, Harald Vogt](#)
 March 2005 **Personal and Ubiquitous Computing** , Volume 9 Issue 2
Publisher: Springer-Verlag
 Full text available:  [Pdf](#) (545.45 KB) Additional Information: [full citati](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 70, Downloa

The severe resource restrictions of computer-augmented everyday artif
 in smart environments. Some of these problems can be overcome by ex




Keywords: Cooperation, Device integration, Handheld devices, Mobile

- 14** [Using formal specifications to support testing](#)
 [Robert M. Hierons, Kirill Bogdanov, Jonathan P. Bowen, Rance Cleaveland,](#)
[Kalpesh Kapoor, Paul Krause, Gerald Lüttgen, Anthony J. H. Simons, Sergi](#)
 February 2009 **Computing Surveys (CSUR)** , Volume 41 Issue 2
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Formal methods and testing are two important approaches that assist ir
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Keywords: Software testing, formal methods

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- 16** [Runtime monitoring on multicores via OASES](#)
 [Vijay Nagarajan, Rajiv Gupta](#)
 April 2009 **SI GOPS Operating Systems Review** , Volume 43 Issue 2

Publisher: ACMFull text available:  Pdf (1.16 MB)Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 136, Downloads


Runtime monitoring support serves as a foundation for the important task of improving performance of applications. Often runtime monitoring requires

Keywords: atomic updates, exposed cache events, shadow memory**17** [Circuit emulation services over ethernet-part 1: clock synchronization](#)[James Aweya](#), [Michel Ouellette](#), [Delfin Y. Montuno](#), [Kent Felske](#)January 2004 **International Journal of Network Management**, Volume**Publisher:** John Wiley & Sons, Inc.Full text available:  Pdf (260.66 KB)Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 12, Downloads

Due to Ethernet's ubiquity, simplicity, scalability and cost effectiveness, access and transport in the metropolitan network. Many service providers

18 [System Software for Audio and Visual Networked Home Appliances](#)[Tatsuo Nakajima](#)November 2001 **Middleware '01: Proceedings of the IFIP/ACM International****Publisher:** Springer-VerlagFull text available:  Pdf (371.41 KB)Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 21, Downloads**19** [An open architecture for transport-level protocol coordination in distributed](#) [David E. Ott](#), [Ketan Mayer-Patel](#)


August 2007

Transactions on Multimedia Computing, Communication**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (343.09 KB)Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 82, Downloads

We consider the problem of flow coordination in distributed multimedia applications that operate independently and lack mechanisms for sharing information with

Keywords: Network protocols, distributed applications, flow coordination**20** [Challenges in peer-to-peer gaming](#) [Christoph Neumann](#), [Nicolas Prigent](#), [Matteo Varvello](#), [Kyoungwon Suh](#)

January 2007




SIGCOMM Computer Communication Review, Volume 37**Publisher:** ACMFull text available:  Pdf (98.56 KB)Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 126, Downloads

While multi-player online games are very successful, their fast deployment on servers both limit the scalability of the games and increase deployment

Keywords: overlay online-gaming, peer-to-peer, security

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